Title: Technology Integration: Making it Work in Your Classroom

Credits: 3 graduate credits

Instructor: Jane Wilde, Absolute Computing Solutions, solutions@absolutecomputingvt.com

Meeting dates and times: July 9-13 Monday through Friday 8:30am-4pm September 22 8:30am-4pm (or date to be determined by group)

Location: Southern Vermont Learning Collaborative, 471 US Route 5, Dummerston, VT 05301, (802) 257-8600

Course Description:
This is a hands-on course in the implementation of a technology rich curriculum. This course will answer the two questions I am most often asked about technology: 1. Why should I incorporate technology? 2. How do I use technology to teach?

Goals:
Students will have a deeper understanding of the role technology can play in their classroom. Each will leave the class with a virtual tool kit of resources for integrating technology. Students will be able to plan technology rich lessons and will demonstrate skills to solve problems that might otherwise be obstacles to success using technology.

Learning Outcomes:
Participants will:
- o understand the concept of the digital native/immigrant (Mark Prensky, 2001) and will be able to describe its significance in their classroom and beyond.
- o plan integrated technology rich activities alligned to the Vermont GEs for math, science, social studies, language arts and social curriculum
- o develop and implement a technology rich unit aligned to the VT GEs for math, science, social studies, language arts, or other curricula
- o be able to troubleshoot basic computer, network and printing problems that interfer with the use of computers in the classroom

General Course Information

Course Policies:
The following are necessary for successful completion of this course:

- o Consistent and regular class attendance
- o Active participation in technology based activities
- o Active participation in class discussions of readings
- o Completion of readings
- o Completion of assignments

Attendance Expectations:
Students are expected to attend all sessions.

Contributions in Class:
Students are expected to contribute to class discussion and share their practical work with the group

Academic Honesty & Professionalism:
As a community of scholars, the administration, faculty and students at Castleton expect all to maintain the highest integrity in scholarly work. All tests, papers, assignments, and projects must be the work of the individual or group assigned. Any work that is not original must be properly credited or it is plagiarized. Any violation of

academic honesty will be considered cheating and will be dealt with accordingly by the individual instructor. For more information see page 12 of the "Castleton College Handbook & Calendar, 2003-2004", also accessible online at: http://www.castleton.edu/campus/StudentHandbook/pages6to43.pdf

Required and/or recommended readings:
Students should bring to class a copy of the Vermont GEs for their grade level. If you don't have your GEs they are available on-line at http://education.vermont.gov/new/html/pubs/framework.html. All other reading assignments will be internet based. Students are welcome to print copies from the internet for their own use, if it is easier for the student to read hard copy. Please note authors' copyright requirements.
- o "Apple Classrooms of Tomorrow." Apple. 1998. 30 Mar. 2007 <http://images.apple.com/education/k12/leadership/acot/pdf/rpt08.pdf>.
- o Brandon, Linda. "Using Technology to Differentiate Instruction." Lakeland Central Schools. 30 Mar. 2007 <http://lakelandschools.org/EDTECH/Differentiation/home.htm>.
- o Constructivism and the Five E's - "Constructivism and the Five Es." Miami Museum of Science. 2001. 30 Mar. 2007 <http://www.miamisci.org/ph/lpintro5e.html>.
- o Faces of Constructivism - Dougiamas, Martin. "Journey Into Constructivism." Dougiamas. 30 July 2000. 30 Mar. 2007 <http://dougiamas.com/writing/constructivism.html - faces>.
- o ISTE – International Society for Technology in Education- "ISTE - Home." International Society for Technology in Education. 30 Mar. 2007. 30 Mar. 2007 < http://www.iste.org/>.
- o "Theory of Multiple Intelligences." Wikipedia, the Free Encyclopedia. 29 Mar. 2007. 30 Mar. 2007 <http://en.wikipedia.org/wiki/Multiple_intelligence>.
- o Theroux, Priscilla. "Differentiated Instruction." Enhancing Learning with Technology. 20 June 2004. 30 Mar. 2007 <http://members.shaw.ca/priscillatheroux/differentiating.html>.
- o "VERMONT's FRAMEWORK OF STANDARDS & LEARNING OPPORTUNITIES." State of Vermont - Department of Education. 20 Sept. 2005. 30 Mar. 2007 <http://education.vermont.gov/new/html/pubs/framework.html>. "Teacher Standards," "Student Essential Conditions," "Student Standards."

Electronic Submissions/Internet Use:
Students are encouraged to communicate with instructor and classmates via email. Some assignments will require submission of writing on-line through the use of a class wiki. Internet use will be extensive.

Student Evaluation/Assessment

Grading Policy:
Grades are indicated by letters with a designated "quality point" value assigned to each for graduate-level course work as follows:

A+	=	4.0
A	=	4.0
A-	=	3.7
B+	=	3.3
B	=	3.0
B-	=	2.7
C+	=	2.3
C	=	2.0
C-	=	0.0

Scoring Rubrics:
See attached rubrics for class particpation, collaborative learning, integrated lessons, reading response.

Percentage Contribution of Each Assignment:
20 % individual class participation and activities
20 % contribution to collaborative learning activities
30 % integrated curriculum lessons
20 % on-line response to reading

Instructional Sequence:

Throughout the course consideration of the State GEs, education theory, assessment and digital ethics will be woven into the daily work. The following schedule of topics is a rough outline that may be adjusted throughout the course. Each day will include hands-on work utilizing the digital tools and skills presented.

July 19
- o Introduction to incorporating technology into Language Arts, Math, Science, Social Studies, Information Literacy, etc
- o On-line teacher resources:
  - o Online/social bookmarking
- o Web searching, how to, when to, what should kids know how to do

July 20
- o Digital Immigrant/Natives
- o On-line gaming/learning environments
- o On-line teacher resources:
  - o Rubrics
  - o Tests
  - o VTCite
  - o Websites
  - o Portaportal
  - o Delicious
- o Technology Troubleshooting – what the teacher needs to know

July 21
- o Class websites
  - Blogs/wikis
- o Using Digital Photography

July 22
- o Math tools
- o Webquests
- o Research/research products
  - o Movies, slideshows, books, posters, websites…

July 23
- o Maps/Mapping/GoogleEarth
- o Classroom management and computers
- o Integrating technology into Language Arts, Math, Science, Social Studies, Information Literacy, etc

Fall Meeting
- o Project presentations
- o Group troubleshooting
- o Taking the next step